

(FILE 'HOME' ENTERED AT 11:53:29 ON 16 JAN 2012)

FILE 'MEDLINE' ENTERED AT 11:53:35 ON 16 JAN 2012
L1 1 SEA PLU=ON RESPIRATORY SYNCITIAL VIRUS AND (SIRNA OR SHRNA OR
(RNA (4A) INTERFER?))
D BIB AB
L2 92 SEA PLU=ON RESPIRATORY SYNCYTIAL VIRUS AND (SIRNA OR SHRNA OR
(RNA (4A) INTERFER?))
D TI 50-92
D BIB AB 84 83 81 80 77

FILE HOME

FILE MEDLINE

FILE LAST UPDATED: 14 Jan 2012 (20120114/UP). FILE COVERS 1946 TO DATE.

MEDLINE(R) is a registered trademark of the U.S. National Library of Medicine (NLM).

MEDLINE and LMEDLINE have been updated with the 2011 Medical Subject Headings (MeSH) vocabulary and tree numbers from the U.S. National Library of Medicine (NLM). Additional information is available at:

http://www.nlm.nih.gov/pubs/techbull/nd10/nd10_medline_data_changes_2011.html

The 2011 Medline reload was completed on January 22, 2011.
See HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

See HELP RANGE before carrying out any RANGE search.

STN INTERNATIONAL LOGOFF AT 12:02:10 ON 16 JAN 2012

Connecting via Winsock to STN at pto-stn on port 23

Welcome to STN International! Enter x:X

LOGINID: ssspta1632ras

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * * * *

NEWS 1 OCT 11 Instructor-led and self paced STN learning resources

available at <https://cas.csod.com/Default.aspx?c=001>

NEWS 2 APR 26 Expanded Swedish Patent Application Coverage in CA/CAplus Provides More Current and Complete Information

NEWS 3 APR 28 The DWPI (files WPINDEX, WPIDS and WPIX) on STN have been enhanced with thesauri for the European Patent Classifications

NEWS 4 MAY 02 MEDLINE Improvements Provide Fast and Simple Access to DOI and Chemical Name Information

NEWS 5 MAY 12 European Patent Classification thesauri added to the INPADOC files, PCTFULL, GBFULL and FRFULL

NEWS 6 MAY 23 Enhanced performance of STN biosequence searches

NEWS 7 JUN 20 STN on the Web Enhanced with New Patent Family Assistant and Updated Structure Plug-In

NEWS 8 JUN 20 INPADOC databases enhanced with first page images

NEWS 9 JUN 20 PATDPA database updates to end in June 2011

NEWS 10 JUN 26 MARPAT Enhancements Save Time and Increase Usability

NEWS 11 JUL 25 STN adds Australian patent full-text database, AUPATFULL, including the new numeric search feature.

NEWS 12 AUG 01 CA Sections Added to ACS Publications Web Editions Platform

NEWS 13 AUG 16 INPADOC: Coverage of German Patent Data resumed, enhanced legal status

NEWS 14 AUG 18 Upgrade now to STN Express, Version 8.5

NEWS 15 SEP 01 CAS Journal Coverage Now Includes Ahead-of-Print Articles for More Than 100 Journal Titles

NEWS 16 SEP 01 Older Versions of STN Express to be Discontinued Beginning in March 2012

NEWS 17 SEP 09 USAN Database Updates Offer Superior Currency on STN(R)

NEWS 18 SEP 26 STN Adds Canadian Patent Full-text Database - CANPATFULL

NEWS 19 SEP 26 GEOREF and ENCOMPLIT databases were reloaded on September 24, 2011.

NEWS 20 SEP 26 Updates to the IFIPAT/IFIUDB/IFICDB databases have resumed.

NEWS 21 SEP 26 ECLA Thesaurus in CA/CAplus Improves Patent Searching on STN

NEWS 22 SEP 26 Access AUPATFULL and CANPATFULL databases with STN Viewer

NEWS 23 OCT 26 New STN Revolutionizes Patent Searching for Professionals

NEWS 24 DEC 1 CA/CAplus Now Includes Examiner Citations for Japanese Patents

NEWS 25 DEC 1 CAS Expands Global Patent Coverage - Intellectual Property Corporation of Malaysia Becomes 62nd Authority on CA/CAplus

NEWS 26 DEC 5 STN on the Web Enhancements Include Compatibility with Microsoft Windows 7

NEWS 27 DEC 14 Removal of ITRD and PATIPC databases from STN

NEWS 28 DEC 15 Rolled-up IPC Core Codes Removed from IPC Reclassifications in Patent Databases on STN

NEWS 29 JAN 12 Structure Graphics Have Been Added to Abstracts for MARPAT and CA/CAplus on STN

NEWS 30 JAN 15 Online Access to Very Large Chemical Structure Images Enhanced on STN

NEWS EXPRESS 18 AUGUST 2011 CURRENT WINDOWS VERSION IS V8.5,
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2011.

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products is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 12:43:32 ON 16 JAN 2012

FILE 'MEDLINE' ENTERED AT 12:43:39 ON 16 JAN 2012

FILE LAST UPDATED: 14 Jan 2012 (20120114/UP). FILE COVERS 1946 TO DATE.

MEDLINE(R) is a registered trademark of the U.S. National Library of Medicine (NLM).

MEDLINE and LMEDLINE have been updated with the 2011 Medical Subject Headings (MeSH) vocabulary and tree numbers from the U.S. National Library of Medicine (NLM). Additional information is available at:

http://www.nlm.nih.gov/pubs/techbull/nd10/nd10_medline_data_changes_2011.html.

The 2011 Medline reload was completed on January 22, 2011.
See HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

See HELP RANGE before carrying out any RANGE search.

=> s shrna and transport? and cytoplasm?

3844 SHRNA
789 SHRNAs
4149 SHRNA

(SHRNA O
457444 TRANSPORT?
345146 CYTOPLASM?

11 36 SHRNA AND TRANSPORT? AND CYTOPLASM?

$\Rightarrow d + i = 36$

L1 ANSWER 1 OF 36 MEDLINE ® on STN
TI Distinct functional effects for dynamin 3 during megakaryocytopoiesis

L1 ANSWER 2 OF 36 MEDLINE ® on STN
TI Active ERK1/2 protein interacts with the phosphorylated nuclear constitutive active/androstane receptor (CAR; NR1I3), repressing dephosphorylation and sequestering CAR in the cytoplasm.

L1 ANSWER 3 OF 36 MEDLINE ® on STN
TI NudC is required for interkinetic nuclear migration and neuronal migration during neocortical development

L1 ANSWER 4 OF 36 MEDLINE ® on STN
TI Chromatin modifying protein 1A (Chmp1A) of the endosomal sorting complex required for transport (ESCRT)-III family activates ataxiatelangiectasia mutated (ATM) for PanC-1 cell growth inhibition.

L1 ANSWER 5 OF 36 MEDLINE ® on STN
TI YAP accelerates A β (25-35)-induced apoptosis through upregulation of Bax expression by interaction with p73.

L1 ANSWER 6 OF 36 MEDLINE ® on STN
TI The ubiquitin-like protein PLIC-1 or ubiquilin 1 inhibits TLR3-Trif signaling.

L1 ANSWER 7 OF 36 MEDLINE ® on STN
TI Cortactin activation by FVIIa/tissue factor and PAR2 promotes endothelial cell migration.

L1 ANSWER 8 OF 36 MEDLINE ® on STN
TI Inhibition of the plasma membrane Ca $^{2+}$ pump by CD44 receptor activation of tyrosine kinases increases the action potential afterhyperpolarization in sensory neurons.

L1 ANSWER 9 OF 36 MEDLINE ® on STN
TI Localization of retinitis pigmentosa 2 to cilia is regulated by Importin beta2.

L1 ANSWER 10 OF 36 MEDLINE ® on STN
TI Arachidonic acid stimulates formation of a novel complex containing nucleolin and RhoA.

L1 ANSWER 11 OF 36 MEDLINE ® on STN
TI SMYD3 interacts with HTLV-1 Tax and regulates subcellular localization of Tax.

L1 ANSWER 12 OF 36 MEDLINE ® on STN
TI Effect of human S100A13 gene silencing on FGF-1 transportation in human endothelial cells.

L1 ANSWER 13 OF 36 MEDLINE ® on STN
TI Bacterial delivery of RNAi effectors: transkingdom RNAi.

L1 ANSWER 14 OF 36 MEDLINE ® on STN
TI miR-451 protects against erythroid oxidant stress by repressing 14-3-3zeta.

L1 ANSWER 15 OF 36 MEDLINE ® on STN
TI The absence of a clathrin adapter confers unique polarity essential to proximal tubule function.

L1 ANSWER 16 OF 36 MEDLINE ® on STN
TI Bicaudal D1-dependent trafficking of human cytomegalovirus tegument protein pp150 in virus-infected cells.

L1 ANSWER 17 OF 36 MEDLINE ® on STN
TI Symplekin promotes tumorigenicity by up-regulating claudin-2 expression.

L1 ANSWER 18 OF 36 MEDLINE ® on STN
TI The transmembrane protein CBP plays a role in transiently anchoring small clusters of Thy-1, a GPI-anchored protein, to the cytoskeleton.

L1 ANSWER 19 OF 36 MEDLINE ® on STN
TI Myosin-Va restrains the trafficking of Na $^{+}$ /K $^{+}$ -ATPase-containing vesicles in alveolar epithelial cells.

L1 ANSWER 20 OF 36 MEDLINE ® on STN

TI Modulation of neuritogenesis by a protein implicated in X-linked mental retardation.

L1 ANSWER 21 OF 36 MEDLINE ® on STN
TI E2F4 expression is required for cell cycle progression of normal intestinal crypt cells and colorectal cancer cells.

L1 ANSWER 22 OF 36 MEDLINE ® on STN
TI Na⁺/H⁺ exchangers and RhoA regulate acidic extracellular pH-induced lysosome trafficking in prostate cancer cells.

L1 ANSWER 23 OF 36 MEDLINE ® on STN
TI Peptidyl-prolyl isomerase Pin1 markedly enhances the oncogenic activity of the rel proteins in the nuclear factor-kappaB family.

L1 ANSWER 24 OF 36 MEDLINE ® on STN
TI p53 is required for etoposide-induced apoptosis of human embryonic stem cells.

L1 ANSWER 25 OF 36 MEDLINE ® on STN
TI Regulation of calcium-permeable TRPV2 channel by insulin in pancreatic beta-cells.

L1 ANSWER 26 OF 36 MEDLINE ® on STN
TI SGNP: an essential Stress Granule/Nucleolar Protein potentially involved in 5.8s rRNA processing/transport.

L1 ANSWER 27 OF 36 MEDLINE ® on STN
TI Calcium-modulating cyclophilin ligand regulates membrane trafficking of postsynaptic GABA(A) receptors.

L1 ANSWER 28 OF 36 MEDLINE ® on STN
TI DcpS scavenger decapping enzyme can modulate pre-mRNA splicing.

L1 ANSWER 29 OF 36 MEDLINE ® on STN
TI Gain- and loss-of-function approaches in the chick embryo.

L1 ANSWER 30 OF 36 MEDLINE ® on STN
TI Vesicular monoamine transporter 2 regulates the sensitivity of rat dopaminergic neurons to disturbed cytosolic dopamine levels.

L1 ANSWER 31 OF 36 MEDLINE ® on STN
TI Photo inducible RNA interference using cell permeable protein carrier.

L1 ANSWER 32 OF 36 MEDLINE ® on STN
TI Regulation of p73 by Hck through kinase-dependent and independent mechanisms.

L1 ANSWER 33 OF 36 MEDLINE ® on STN
TI GCP6 binds to intermediate filaments: a novel function of keratins in the organization of microtubules in epithelial cells.

L1 ANSWER 34 OF 36 MEDLINE ® on STN
TI Effects of transforming growth factor-beta/Smad signaling on the growth and apoptosis of human rhabdomyosarcoma cell line RD.

L1 ANSWER 35 OF 36 MEDLINE ® on STN
TI The ribonucleotide reductase subunit M2B subcellular localization and functional importance for DNA replication in physiological growth of KB cells.

L1 ANSWER 36 OF 36 MEDLINE ® on STN
TI Cytoplasmic and nuclear retained DMPK mRNAs are targets for RNA interference in myotonic dystrophy cells.

=> d bib ab 36

L1 ANSWER 36 OF 36 MEDLINE ® on STN
AN 2005214020 MEDLINE <<LOGINID::20120116>>
DN PubMed ID: 15722335
TI Cytoplasmic and nuclear retained DMPK mRNAs are targets for RNA interference in myotonic dystrophy cells.
AU Langlois Marc-Andre; Boniface Christelle; Wang Gang; Alluin Jessica; Salvaterra Paul M; Puymirat Jack; Rossi John J; Lee Nan Sook
CS Laboratory of Human Genetics, Laval University Medical Research Centre, CHUQ, Pavillon CHUL, Ste-Foy, Quebec G1V 7P4, Canada.
SO The Journal of biological chemistry, (2005 Apr 29) Vol. 280, No. 17, pp. 16949-54. Electronic Publication: 2005-02-18.
Journal code: 2985121R. ISSN: 0021-9258. L-ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
(RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)
LA English
FS Priority Journals
EM 200506
ED Entered STN: 26 Apr 2005
Last Updated on STN: 22 Jun 2005
Entered Medline: 21 Jun 2005
OSC.G 16 There are 16 MEDLINE records that cite this record
AB Small interfering RNA (siRNA) duplexes induce the specific cleavage of target RNAs in mammalian cells. Their involvement in down-regulation of gene expression is termed RNA interference (RNAi). It is widely believed that RNAi predominates in the cytoplasm. We report here the co-existence of cytoplasmic and nuclear RNAi phenomena in primary human myotonic dystrophy type 1 (DM1) cells by targeting myotonic dystrophy protein kinase (DMPK) mRNAs. Heterozygote DM1 myoblasts from a human DM1 fetus produce a nuclear retained mutant DMPK transcript with large CUG repeats (approximately 3,200) from one allele of the DMPK gene and a wild type transcript with 18 CUG repeats, thus providing for both a nuclear and cytoplasmic expression profile to be evaluated. We demonstrate here for the first time down-regulation of the endogenous nuclear retained mutant DMPK mRNAs targeted with lentivirus-delivered short hairpin RNAs (shRNAs). This nuclear RNAi(-like) phenomenon was not observed when synthetic siRNAs were delivered by cationic lipids, suggesting either a link between processing of the shRNA and nuclear import or a separate pathway for processing shRNAs in the nuclei. Our observation of simultaneous RNAi on both cytoplasmic and nuclear retained DMPK has important implications for post-transcriptional gene regulation in both compartments of mammalian cells.

=> s shrna and cytoplasm?
3844 SHRNA
789 SHRNAs
4149 SHRNA
(SHRNA OR SHRNAs)
245146 CYTOPLASM?
L2 163 SHRNA AND CYTOPLASM?

=> d ti 120-163

L2 ANSWER 120 OF 163 MEDLINE ® on STN
TI Identification and functional analysis of SKA2 interaction with the glucocorticoid receptor.

L2 ANSWER 121 OF 163 MEDLINE ® on STN
TI Autophagy is cytoprotective during cisplatin injury of renal proximal tubular cells.

L2 ANSWER 122 OF 163 MEDLINE ® on STN
TI mTOR-raptor binds and activates SGK1 to regulate p27 phosphorylation.

L2 ANSWER 123 OF 163 MEDLINE ® on STN
TI Calcium-modulating cyclophilin ligand regulates membrane trafficking of postsynaptic GABA(A) receptors.

L2 ANSWER 124 OF 163 MEDLINE ® on STN
TI DcpS scavenger decapping enzyme can modulate pre-mRNA splicing.

L2 ANSWER 125 OF 163 MEDLINE ® on STN
TI Gain- and loss-of-function approaches in the chick embryo.

L2 ANSWER 126 OF 163 MEDLINE ® on STN
TI Integrin activation.

L2 ANSWER 127 OF 163 MEDLINE ® on STN
TI Impact of radiation therapy on the oncolytic adenovirus dl520: implications on the treatment of glioblastoma.

L2 ANSWER 128 OF 163 MEDLINE ® on STN
TI MHC class II structural requirements for the association with Igalpha/beta, and signaling of calcium mobilization and cell death.

L2 ANSWER 129 OF 163 MEDLINE ® on STN
TI Downregulation of tumor suppressor Pcd4 promotes invasion and activates both beta-catenin/Tcf and AP-1-dependent transcription in colon carcinoma cells.

L2 ANSWER 130 OF 163 MEDLINE ® on STN
TI Loss of type III transforming growth factor beta receptor expression increases motility and invasiveness associated with epithelial to mesenchymal transition during pancreatic cancer progression.

L2 ANSWER 131 OF 163 MEDLINE ® on STN
TI Distinct FAK-Src activation events promote alpha5beta1 and alpha4beta1 integrin-stimulated neuroblastoma cell motility.

L2 ANSWER 132 OF 163 MEDLINE ® on STN
TI Cellular restriction of retrovirus particle-mediated mRNA transfer.

L2 ANSWER 133 OF 163 MEDLINE ® on STN
TI The orphan nuclear receptor chicken ovalbumin upstream promoter-transcription factor II is a critical regulator of adipogenesis.

L2 ANSWER 134 OF 163 MEDLINE ® on STN
TI Ezrin silencing by small hairpin RNA reverses metastatic behaviors of human breast cancer cells.

L2 ANSWER 135 OF 163 MEDLINE ® on STN
TI The regulatory element in the 3'-untranslated region of human papillomavirus 16 inhibits expression by binding CUG-binding protein 1.

L2 ANSWER 136 OF 163 MEDLINE ® on STN
TI Evolutionarily conserved gene family important for fat storage.

L2 ANSWER 137 OF 163 MEDLINE ® on STN
TI A critical function for beta-amyloid precursor protein in neuronal migration revealed by in utero RNA interference.

L2 ANSWER 138 OF 163 MEDLINE ® on STN
TI Vesicular monoamine transporter 2 regulates the sensitivity of rat dopaminergic neurons to disturbed cytosolic dopamine levels.

L2 ANSWER 139 OF 163 MEDLINE ® on STN
TI Photo inducible RNA interference using cell permeable protein carrier.

L2 ANSWER 140 OF 163 MEDLINE ® on STN
TI Analysis of mRNA translation in cultured hippocampal neurons.

L2 ANSWER 141 OF 163 MEDLINE ® on STN
TI CLIC4 mediates and is required for Ca²⁺-induced keratinocyte differentiation.

L2 ANSWER 142 OF 163 MEDLINE ® on STN
TI Regulation of p73 by Hck through kinase-dependent and independent mechanisms.

L2 ANSWER 143 OF 163 MEDLINE ® on STN
TI Modulation of p53 and MDM2 activity by novel interaction with Ras-GAP binding proteins (G3BP).

L2 ANSWER 144 OF 163 MEDLINE ® on STN
TI Light chain 1 of microtubule-associated protein 1B can negatively regulate the action of Pes1.

L2 ANSWER 145 OF 163 MEDLINE ® on STN
TI The Grb2/PLD2 interaction is essential for lipase activity, intracellular localization and signaling in response to EGF.

L2 ANSWER 146 OF 163 MEDLINE ® on STN
TI GCP6 binds to intermediate filaments: a novel function of keratins in the organization of microtubules in epithelial cells.

L2 ANSWER 147 OF 163 MEDLINE ® on STN
TI c-Abl kinase regulates curcumin-induced cell death through activation of c-Jun N-terminal kinase.

L2 ANSWER 148 OF 163 MEDLINE ® on STN
TI Cutting edge: rho activation and actin polarization are dependent on plexin-A1 in dendritic cells.

L2 ANSWER 149 OF 163 MEDLINE ® on STN
TI Effects of hTERT RNAi on apoptosis of hepatocellular carcinoma cells induced by TRAIL.

L2 ANSWER 150 OF 163 MEDLINE ® on STN
TI Construction of shRNA targeted to the rat angiotensin II type 1 receptors and its RNAi in cytoplasma.

L2 ANSWER 151 OF 163 MEDLINE ® on STN
TI Stable expression of shRNAs in human CD34+ progenitor cells can avoid induction of interferon responses to siRNAs in vitro.

L2 ANSWER 152 OF 163 MEDLINE ® on STN
TI Identification of ERRalpha as a specific partner of PGC-1alpha for the activation of PDK4 gene expression in muscle.

L2 ANSWER 153 OF 163 MEDLINE ® on STN
TI Intracellular localization and content of YB-1 protein in multidrug resistant tumor cells.

L2 ANSWER 154 OF 163 MEDLINE ® on STN
TI Fepsilon RI control of Ras via inositol (1,4,5) trisphosphate 3-kinase and inositol tetrakisphosphate.

L2 ANSWER 155 OF 163 MEDLINE ® on STN
TI Design of shRNAs for RNAi-A lesson from pre-miRNA processing: possible clinical applications.

L2 ANSWER 156 OF 163 MEDLINE ® on STN
TI Effects of transforming growth factor-beta/Smad signaling on the growth and apoptosis of human rhabdomyosarcoma cell line RD.

L2 ANSWER 157 OF 163 MEDLINE ® on STN
TI The ribonucleotide reductase subunit M2B subcellular localization and functional importance for DNA replication in physiological growth of KB cells.

L2 ANSWER 158 OF 163 MEDLINE ® on STN
TI Efficient delivery of RNA interference effectors via in vitro-packaged SV40 pseudovirions.

L2 ANSWER 159 OF 163 MEDLINE ® on STN
TI In vivo application of RNA interference: from functional genomics to therapeutics.

L2 ANSWER 160 OF 163 MEDLINE ® on STN
TI Application of the BC1 RNA gene promoter for short hairpin RNA expression in cultured neuronal cells.

L2 ANSWER 161 OF 163 MEDLINE ® on STN
TI Cytoplasmic and nuclear retained DMPK mRNAs are targets for RNA interference in myotonic dystrophy cells.

L2 ANSWER 162 OF 163 MEDLINE ® on STN
TI RNA interference by small hairpin RNAs synthesised under control of the human 7S K RNA promoter.

L2 ANSWER 163 OF 163 MEDLINE ® on STN
TI HCRP1, a novel gene that is downregulated in hepatocellular carcinoma, encodes a growth-inhibitory protein.

=> d bib ab 162 163

L2 ANSWER 162 OF 163 MEDLINE ® on STN
AN 2004523410 MEDLINE <<LOGINID::20120116>>
DN PubMed ID: 15493873
TI RNA interference by small hairpin RNAs synthesised under control of the human 7S K RNA promoter.
AU Koper-Emde Dorota; Herrmann Lutz; Sandrock Bjorn; Benecke Bernd-Joachim
CS Lehrstuhl fur Biochemie I, Fakultat fur Chemie, Ruhr-Universitat Bochum,
D-44780 Bochum, Germany.

SO Biological chemistry, (2004 Sep) Vol. 385, No. 9, pp. 791-4.
Journal code: 9700112. ISSN: 1431-6730. L-ISSN: 1431-6730.

CY Germany: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)

LA English

FS Priority Journals

EM 200502

ED Entered STN: 22 Oct 2004
Last Updated on STN: 12 Feb 2005
Entered Medline: 11 Feb 2005

OSC.G 7 There are 7 MEDLINE records that cite this record

AB Small interfering RNAs (siRNAs) represent RNA duplexes of 21 nucleotides in length that inhibit gene expression. We have used the human gene-external 7S K RNA promoter for synthesis of short hairpin RNAs (shRNAs) which efficiently target human lamin mRNA via RNA interference (RNAi). Here we demonstrate that orientation of the target sequence within the shRNA construct is important for interference. Furthermore, effective interference also depends on the length and/or structure of the shRNA. Evidence is presented that the human 7S K promoter is more active *in vivo* than other gene-external promoters, such as the human U6 small nuclear RNA (snRNA) gene promoter.

L2 ANSWER 163 OF 163 MEDLINE ® on STN
AN 2003543490 MEDLINE <>LOGINID::20120116>>
DN PubMed ID: 14623289

TI HCRP1, a novel gene that is downregulated in hepatocellular carcinoma, encodes a growth-inhibitory protein.

AU Xu Zhenhua; Liang Liang; Wang Hongfei; Li Tsaiiping; Zhao Mujun
CS State Key Laboratory of Molecular Biology, Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, 320 Yue Yang Road, 200031, Shanghai, China.

SO Biochemical and biophysical research communications, (2003 Nov 28) Vol. 311, No. 4, pp. 1057-66.
Journal code: 0372516. ISSN: 0006-291X. L-ISSN: 0006-291X.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)

LA English

FS Priority Journals

OS GENBANK-AY033079

EM 200402

ED Entered STN: 19 Nov 2003
Last Updated on STN: 10 Feb 2004
Entered Medline: 9 Feb 2004

OSC.G 4 There are 4 MEDLINE records that cite this record

AB One of the most frequent allelic deletions in hepatocellular carcinoma (HCC) has been found at chromosome 8p21-23. We reported here the identification and characterization of a novel gene for a hepatocellular carcinoma related protein 1 (HCRP1) localized at 8p22, which was isolated by positional candidate cloning. The expression of the gene for HCRP1 was most abundant in normal human liver tissue and significantly reduced or undetected in HCC tissues. The analysis of subcellular distribution showed that HCRP1 diffused in the cytoplasm with a significant fraction accumulated in the nuclei. After introduction of the sense and antisense cDNA of HCRP1 into HCC cell line SMMC-7721, we observed that the overexpression of HCRP1 significantly inhibited both anchorage-dependent and anchorage-independent cell growth *in vitro*. Using the transgenic short hairpin RNA (shRNA) to knock down the expression of HCRP1 gene in the other HCC cell line BEL-7404 resulted in the cell growth greatly enhanced. Moreover, reduction of the HCRP1 gene expression could also

elevate the invasive ability of BEL-7404 cells. Our results strongly suggest that HCRP1 might be a growth inhibitory protein and associated with decreasing the invasion of HCC cells.

=> s short hairpin rna and cytoplasm

444842 SHORT
207 SHORTS
445016 SHORT
(SHORT OR SHORTS)
12235 HAIRPIN
1864 HAIRPINS
13068 HAIRPIN
(HAIRPIN OR HAIRPINS)
651456 RNA
33553 RNAS
656094 RNA
(RNA OR RNAS)
2861 SHORT HAIRPIN RNA
(SHORT(W)HAIRPIN(W)RNA)
122327 CYTOPLASM
874 CYTOPLASMS
122884 CYTOPLASM
(CYTOPLASM OR CYTOPLASMS)

L3 55 SHORT HAIRPIN RNA AND CYTOPLASM

=> d ti 20-55

L3 ANSWER 20 OF 55 MEDLINE ® on STN

TI Extranuclear functions of ER impact invasive migration and metastasis by breast cancer cells.

L3 ANSWER 21 OF 55 MEDLINE ® on STN

TI FOXO3A as a key molecule for all-trans retinoic acid-induced granulocytic differentiation and apoptosis in acute promyelocytic leukemia.

L3 ANSWER 22 OF 55 MEDLINE ® on STN

TI Phospholipid-binding protein EhC2A mediates calcium-dependent translocation of transcription factor URE3-BP to the plasma membrane of Entamoeba histolytica.

L3 ANSWER 23 OF 55 MEDLINE ® on STN

TI Bicaudal D1-dependent trafficking of human cytomegalovirus tegument protein pp150 in virus-infected cells.

L3 ANSWER 24 OF 55 MEDLINE ® on STN

TI DOC45, a novel DNA damage-regulated nucleocytoplasmic ATPase that is overexpressed in multiple human malignancies.

L3 ANSWER 25 OF 55 MEDLINE ® on STN

TI Nuclear-cytoplasmic shuttling of Chibby controls beta-catenin signaling.

L3 ANSWER 26 OF 55 MEDLINE ® on STN

TI Cathepsin B release after imatinib-mediated lysosomal membrane permeabilization triggers BCR-ABL cleavage and elimination of chronic myelogenous leukemia cells.

L3 ANSWER 27 OF 55 MEDLINE ® on STN

TI TrkB1 induces liver metastasis of pancreatic cancer cells by sequestering Rho GDP dissociation inhibitor and promoting RhoA activation.

L3 ANSWER 28 OF 55 MEDLINE ® on STN
TI Killing of cancer cells by the photoactivatable protein kinase C inhibitor, calphostin C, involves induction of endoplasmic reticulum stress.

L3 ANSWER 29 OF 55 MEDLINE ® on STN
TI Inhibition of imatinib-mediated apoptosis by the caspase-cleaved form of the tyrosine kinase Lyn in chronic myelogenous leukemia cells.

L3 ANSWER 30 OF 55 MEDLINE ® on STN
TI The osteogenic transcription factor runx2 controls genes involved in sterol/steroid metabolism, including CYP11A1 in osteoblasts.

L3 ANSWER 31 OF 55 MEDLINE ® on STN
TI Activation of insulin-like growth factor II receptor induces mitochondrial-dependent apoptosis through G(alpha)q and downstream calcineurin signaling in myocardial cells.

L3 ANSWER 32 OF 55 MEDLINE ® on STN
TI Effect of p27 on motility of MDA-MB-231 breast cancer cells.

L3 ANSWER 33 OF 55 MEDLINE ® on STN
TI Estrogen receptor beta functions through nongenomic mechanisms in lung cancer cells.

L3 ANSWER 34 OF 55 MEDLINE ® on STN
TI Lysophosphatidic acid and thrombin receptors require both G alpha12 and G alpha13 to regulate axonal morphology in hippocampal neurons.

L3 ANSWER 35 OF 55 MEDLINE ® on STN
TI Overexpression of fatty acid synthase is associated with palmitoylation of Wnt1 and cytoplasmic stabilization of beta-catenin in prostate cancer.

L3 ANSWER 36 OF 55 MEDLINE ® on STN
TI Inhibition of HCV replication by small interfering RNA.

L3 ANSWER 37 OF 55 MEDLINE ® on STN
TI Knockdown of cellular RNA helicase DDX3 by short hairpin RNAs suppresses HIV-1 viral replication without inducing apoptosis.

L3 ANSWER 38 OF 55 MEDLINE ® on STN
TI Induction of guanylate binding protein 5 by gamma interferon increases susceptibility to *Salmonella enterica* serovar *Typhimurium*-induced pyroptosis in RAW 264.7 cells.

L3 ANSWER 39 OF 55 MEDLINE ® on STN
TI Downregulation of tumor suppressor Pdcd4 promotes invasion and activates both beta-catenin/Tcf and AP-1-dependent transcription in colon carcinoma cells.

L3 ANSWER 40 OF 55 MEDLINE ® on STN
TI JAM-A is both essential and inhibitory to development of hepatic polarity in WIF-B cells.

L3 ANSWER 41 OF 55 MEDLINE ® on STN
TI Functional genomic analysis reveals cross-talk between peroxisome proliferator-activated receptor gamma and calcium signaling in human colorectal cancer cells.

L3 ANSWER 42 OF 55 MEDLINE ® on STN
TI Naked2 acts as a cargo recognition and targeting protein to ensure proper

delivery and fusion of TGF-alpha containing exocytic vesicles at the lower lateral membrane of polarized MDCK cells.

L3 ANSWER 43 OF 55 MEDLINE ® on STN
TI Modulation of p53 and MDM2 activity by novel interaction with Ras-GAP binding proteins (G3BP).

L3 ANSWER 44 OF 55 MEDLINE ® on STN
TI Down-regulation of D2 dopamine receptor and increased protein kinase Cmu phosphorylation in aldosterone-producing adenoma play roles in aldosterone overproduction.

L3 ANSWER 45 OF 55 MEDLINE ® on STN
TI The Grb2/PLD2 interaction is essential for lipase activity, intracellular localization and signaling in response to EGF.

L3 ANSWER 46 OF 55 MEDLINE ® on STN
TI GCP6 binds to intermediate filaments: a novel function of keratins in the organization of microtubules in epithelial cells.

L3 ANSWER 47 OF 55 MEDLINE ® on STN
TI c-Abl kinase regulates curcumin-induced cell death through activation of c-Jun N-terminal kinase.

L3 ANSWER 48 OF 55 MEDLINE ® on STN
TI CDK-dependent activation of poly(ADP-ribose) polymerase member 10 (PARP10).

L3 ANSWER 49 OF 55 MEDLINE ® on STN
TI The differentiation-dependent desmosomal cadherin desmoglein 1 is a novel caspase-3 target that regulates apoptosis in keratinocytes.

L3 ANSWER 50 OF 55 MEDLINE ® on STN
TI Effects of transforming growth factor-beta/Smad signaling on the growth and apoptosis of human rhabdomyosarcoma cell line RD.

L3 ANSWER 51 OF 55 MEDLINE ® on STN
TI Efficient delivery of RNA interference effectors via in vitro-packaged SV40 pseudovirions.

L3 ANSWER 52 OF 55 MEDLINE ® on STN
TI In vivo application of RNA interference: from functional genomics to therapeutics.

L3 ANSWER 53 OF 55 MEDLINE ® on STN
TI Cytoplasmic and nuclear retained DMPK mRNAs are targets for RNA interference in myotonic dystrophy cells.

L3 ANSWER 54 OF 55 MEDLINE ® on STN
TI Exportin-5 mediates the nuclear export of pre-microRNAs and short hairpin RNAs.

L3 ANSWER 55 OF 55 MEDLINE ® on STN
TI HCRP1, a novel gene that is downregulated in hepatocellular carcinoma, encodes a growth-inhibitory protein.

=> d bib ab 54

L3 ANSWER 54 OF 55 MEDLINE ® on STN
AN 2004004791 MEDLINE <<LOGINID::20120116>>

DN PubMed ID: 14681208
TI Exportin-5 mediates the nuclear export of pre-microRNAs and short hairpin RNAs.
AU Yi Rui; Qin Yi; Macara Ian G; Cullen Bryan R
CS Howard Hughes Medical Institute, Duke University Medical Center, Durham, NC 27710, USA.
NC R01 GM 50526 (United States NIGMS NIH HHS)
SO Genes & development, (2003 Dec 15) Vol. 17, No. 24, pp. 3011-6.
Electronic Publication: 2003-12-17.
Journal code: 8711660. ISSN: 0890-9369. L-ISSN: 0890-9369.
Report No.: NLM-PMC305252.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
(RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)
LA English
FS Priority Journals
EM 200401
ED Entered STN: 6 Jan 2004
Last Updated on STN: 30 Jan 2004
Entered Medline: 29 Jan 2004
OSC.G 239 There are 239 MEDLINE records that cite this record
REM.CNT 35 There are 35 cited references available in MEDLINE for this document.
AB MicroRNAs (miRNAs) are initially expressed as long transcripts that are processed in the nucleus to yield approximately 65-nucleotide (nt) RNA hairpin intermediates, termed pre-miRNAs, that are exported to the cytoplasm for additional processing to yield mature, approximately 22-nt miRNAs. Here, we demonstrate that human pre-miRNA nuclear export, and miRNA function, are dependent on Exportin-5. Exportin-5 can bind pre-miRNAs specifically *in vitro*, but only in the presence of the Ran-GTP cofactor. Short hairpin RNAs, artificial pre-miRNA analogs used to express small interfering RNAs, also depend on Exportin-5 for nuclear export. Together, these findings define an additional cellular cofactor required for miRNA biogenesis and function.

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